



Data Warehousing and other stuff

27th HCAT Program Review
New Orleans
January 2007

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The HCAT home page – www.hcat.org



www.hcat.org

To reach the data warehouse you click **HERE** to go to www.materialoptions.co

HCAT info

HCAT data site – www.materialoptions.com

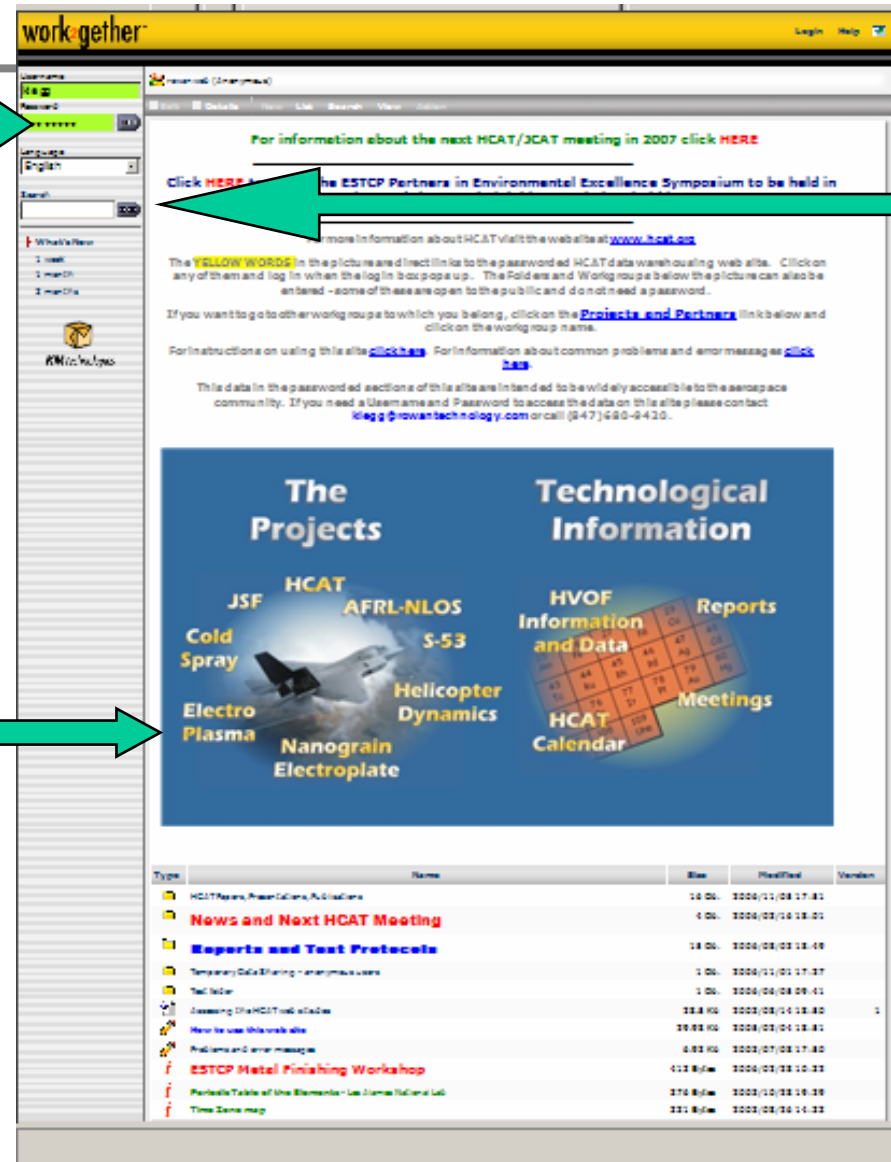
Username: hcat@hcat.org

Password: [hello.hcat](#)

Or:
[hcatguest/hcat](#)

Some people have their own usernames with more extensive rights

If you are a member of a project your Project Workgroup will have a workgroup username and password



Type	Name	Size	Modified	Version
Folder	HCAT News, Press Releases, Publications	10 KB	2004/11/08 17:41	
Folder	News and Next HCAT Meeting	6 KB	2004/03/16 18:01	
Folder	Reports and Test Protocols	18 KB	2004/08/03 18:48	
Folder	Temporary Data Sharing - anonymous users	1 KB	2004/11/01 17:37	
Folder	Test Notes	1 KB	2004/04/08 08:41	
Folder	Assessing the HCAT website	28.8 KB	2003/08/14 18:40	1
Folder	How to use this web site	39.88 KB	2004/03/04 18:41	
Folder	Problems and error messages	6.82 KB	2003/07/08 17:40	
Folder	ESTCP Metal Finishing Workshop	112 KB	2004/03/08 10:33	
Folder	Periodic Table of the Elements - Los Alamos National Lab	374 KB	2003/10/08 18:38	
Folder	Time Zone map	221 KB	2003/04/04 14:33	

Search

The HCAT Team Workspace –

www.materialoptions.com

- ❑ Dynamic – constantly increasing number of files
- ❑ Location for all the reports, data, briefings from meetings
- ❑ All briefings from HCAT meetings (in PDF)
 - This meeting briefings will be on site in about a week under Meetings-HCAT Program Review\27th Program Review
- ❑ ESOH background info
- ❑ Specs and standards
- ❑ Place to share info, upload and download files
- ❑ Separate workgroup for each project to warehouse and share data and work in progress
 - Open only to members of that project



www.hazmat-alternatives.com

Portal for information on alternatives,
regulations, etc., with links to other
locations. Includes databases, on-line tools



- ❑ Info on regulations, including EU rules
- ❑ Publicly released reports and briefings

❑ **Surface Engineering Database under construction**

- Will contain data as downloadable Excel files, reports, including rig test and service experience
- Include sources

Welcome to Hazmat-Alternatives.com.

The international portal for identifying and implementing alternatives to hazardous materials and coatings in commercial and defense products

Registered users login here:

Username:

Password:

Login

Register

If not registered, click here:



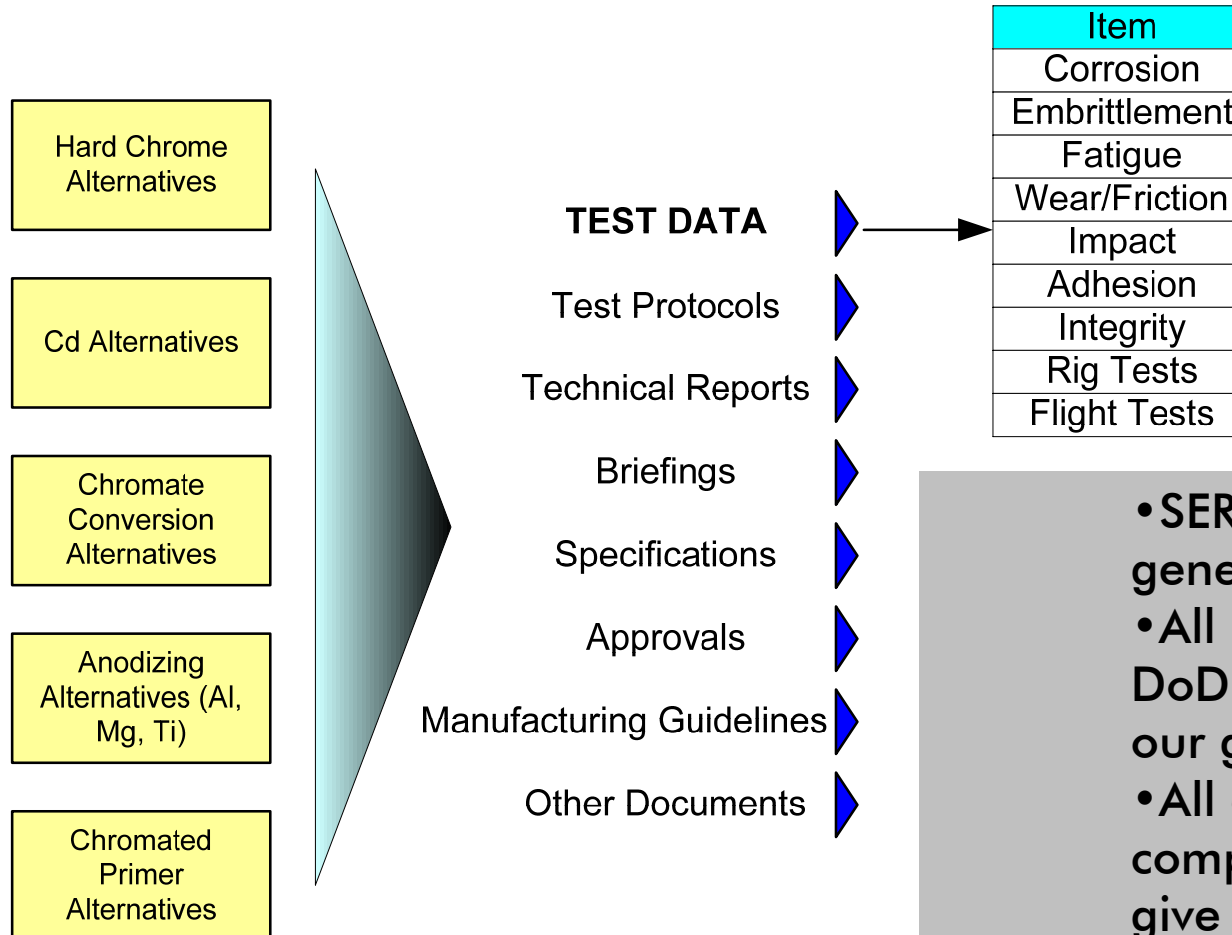
- US, European and other international environmental regulations
- Alternatives to banned and restricted materials
- Alternatives to processes that cause emission of or exposure to hazardous materials

We provide comprehensive solutions for meeting ever stricter environmental regulations...

- Technology summaries, Briefings, reports
- Tools for Roadmapping, Cost Benefit Analysis and Technology Evaluation



Surface Engineering Database



- SERDP and ESTCP-generated data
- All other releasable DoD data we can get our grubby mitts on
- All commercial data companies are willing to give us

•Links to data held by others, e.g. NASF,

Example – Existing data for HVOF

Data summary - Fatigue - Windows Internet Explorer

http://www.materialoptions.com/w2g/cgi/kmcgi.exe?O=DIR0000000MX3&V=0

Google rose thorn

Onfolio

Data summary - Fatigue

Projects and partners

HCAT
Hard Chrome Alternatives Team

HVOF Data

Data summary - Fatigue

✓ Edit ✓ Details New List Search View Action

Type	Name	Size	Modified	Version
<input type="checkbox"/> Folder	Fatigue Actuator Final Curves	3 Ob.	2005/05/25 14:24	
<input type="checkbox"/> Folder	Fatigue GTE Final Curves	41 Ob.	2006/01/05 14:24	
<input type="checkbox"/> Database	Database of axial fatigue - APS - WC-17Co & T400 <i>Click on any X to bring up the graph for that substrate/coating combination</i>	261.26 Kb	2005/06/14 15:22	1
<input type="checkbox"/> Database	Database of axial fatigue - Bare substrates <i>Click on any X to bring up the graph for that substrate/coating combination</i>	364.23 Kb	2005/06/14 15:23	1
<input type="checkbox"/> Database	Database of axial fatigue - Electroplate - EHC <i>Click on any X to bring up the graph for that substrate/coating combination</i>	374.21 Kb	2005/06/14 15:23	1
<input type="checkbox"/> Database	Database of axial fatigue - HVOF - T400 <i>Click on any X to bring up the graph for that substrate/coating combination</i>	312.47 Kb	2005/06/14 15:23	2
<input type="checkbox"/> Database	Database of axial fatigue - HVOF - T800 <i>Click on any X to bring up the graph for that substrate/coating combination</i>	218.18 Kb	2005/06/14 15:23	1
<input type="checkbox"/> Database	Database of axial fatigue - HVOF - WC-10Co-4Cr & Cr ₃ C ₂ -NiCr <i>Click on any X to bring up the graph for that substrate/coating combination</i>	271.85 Kb	2005/06/14 15:22	1
<input type="checkbox"/> Database	Database of axial fatigue - HVOF - WC-17Co <i>Click on any X to bring up the graph for that substrate/coating combination</i>	348.11 Kb	2005/06/14 15:24	1
<input type="checkbox"/> File	Fatigue Actuator Final.xls	344.5 Kb	2005/05/25 14:31	1

Trusted sites 100%

Improved Database

- ❑ Data will be rearranged for easy search and download
- ❑ Excel files that can be downloaded for ease of analysis
- ❑ All reports and briefings containing data from rig and service testing will be downloadable
- ❑ Additional materials and coatings to be added as data become available
 - Including data on commercial coatings and treatments
- ❑ Push the production of proper engineering data suitable for decision-making
 - Minimize the amount of testing needed for validation at each site

Where is HCAT going?

- ❑ We are in process of developing plans – nothing fully decided yet
- ❑ **Maintain successful teaming and workshop approach**
- ❑ Collate engineering data on coatings and finishes and make available on-line to the community
 - Have started modifying out www.hazmat-alternatives web site
- ❑ Set up more topical workshops and webinars to help identify and implement cleaner, better technologies
 - Suggestions?
- ❑ Collaborate closely with other groups and organizations (DoD and commercial) to further development and adoption of cleaner and better materials and coatings
- ❑ Bruce will replace Chuck Pellerin at Program Office
- ❑ Keith to concentrate on assisting Program Office



We need a new name!

- ❑ Change name to protect the innocent and reflect broader mission
 - Surface finishing, including Cr, Cd, chromates, primers
 - Alloys and composites
 - Clean processes and materials
 - Can argue anything that works better and makes things last longer is PP
 - If additional funding can be obtained from other agencies, could include repair technologies in general, and all materials, whether or not they are specifically to eliminate hazmats
 - **Suggestions so far – better ideas?**
 - **Surface Finishing and Coating Team (SFACT)**
 - **Material and Process Alternatives Team (MPAT)**